TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-07-07-06** **Date: 14-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Pothole Filling in Ward No 04."
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2020
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	12-09-2020
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2021-07-07-06**	**Date: 14-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Providing Pothole Filling in Ward No 04."	
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-09-2020	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	12-09-2020	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2021-07-07-06**	**Date: 14-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Providing Pothole Filling in Ward No 04."	
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-09-2020	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	12-09-2020	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-07-07-06** **Date: 21-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Pothole Filling in Ward No 04."
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-2020
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	19-09-2020

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ,
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2021-07-07-06**	**Date: 25-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Providing Pothole Filling in Ward No 04."	
Agency	:	Sri S Somashekar, No.15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-09-2020	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	23-09-2020	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2021-07-07-06**	**Date: 26-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Providing Pothole Filling in Ward No 04."	
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-09-2020	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	23-09-2020	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2021-07-07-06** **Date: 12-11-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Pothole Filling in Ward No 04."
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	11-11-2020
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	11-11-2020

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.00
4	Average percentage	%	6.1	

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Lab ID : CP-RW-2021-07-07-06 Date: 12-11-2020

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	62	68	14.5	85.5	70-88
4.75	102	170	36.2	63.8	53-71
2.36	89	259	55.2	44.8	42-58
1.18	26	285	60.8	39.2	34-48
0.6	15	300	64.0	36.0	26-38
0.3	48	348	74.2	25.8	18-28
0.15	52	400	85.3	14.7	12-20
0.075	40	440	93.8	6.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	65	70	14.9	85.1	70-88
4.75	110	180	38.3	61.7	53-71
2.36	85	265	56.4	43.6	42-58
1.18	35	300	63.8	36.2	34-48
0.6	13	313	66.6	33.4	26-38
0.3	50	363	77.2	22.8	18-28
0.15	49	412	87.7	12.3	12-20
0.075	35	447	95.1	4.9	4-10

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Lab ID : CP-RW-2021-07-07-06 Date: 11-12-2020

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	6	1.3	98.7	90-100
9.5	62	69	14.7	85.3	70-88
4.75	112	183	39.0	61.0	53-71
2.36	88	266	56.7	43.3	42-58
1.18	29	300	64.0	36.0	34-48
0.6	11	315	67.2	32.8	26-38
0.3	46	373	79.5	20.5	18-28
0.15	45	399	85.1	14.9	12-20
0.075	55	425	90.6	9.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	3	0.6	99.4	90-100
9.5	62	70	15.0	85.0	70-88
4.75	112	183	39.1	60.9	53-71
2.36	88	270	57.7	42.3	42-58
1.18	29	300	64.1	35.9	34-48
0.6	11	330	70.5	29.5	26-38
0.3	46	351	75.0	25.0	18-28
0.15	45	386	82.5	17.5	12-20
0.075	55	445	95.1	4.9	4-10

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2021-07-07-06** **Date: 30-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Pothole Filling in Ward No 04."
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-2020
Type of Mix	:	Tack coat
Date of Test	:	29-09-2020

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq m	0.256	0.256
7	Average	Kg/sq m	0.256	
8	Specified Limit	Kg/sq m	0.250 Kg/sq m	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2021-07-07-06** **Date: 30-09-2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Pothole Filling in Ward No 04."
Agency	:	Sri S Somashekar, No:15/44/1 Allalasandra, GKVK Post, Yelahanka, Bangalore-560065
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/76/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-2020
Type of Mix	:	Tack coat
Date of Test	:	29-09-2020

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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